

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: March 29, 2003, 19:47:07 ; Search time 70.5291 Seconds
(without alignments)
7950.388 Million cell updates/sec

Title: US-09-988-971-1_COPY_694_942

Perfect score: 249
Sequence: 1 tggcgtatgagggccgcgag.....agccctcgtgcacatrac 249

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

1: N_Geneseq_101002:*
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3: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*
4: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*
5: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT:*
6: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT:*
7: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT:*
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19: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT:*
20: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
21: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:*
22: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:*
23: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*
24: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	249	100.0	737 24	Mouse MARS short i
2	249	100.0	786 24	Human modulator of
3	249	100.0	1183 24	Human CDNA encodin
4	247.4	99.4	837 21	Human ORF2757
5	242.6	97.4	2049 23	DNA encoding novel
6	213.8	85.9	1348 24	Mouse modulator of
7	147	59.0	603 23	DNA encoding novel
8	103	41.4	211 23	DNA encoding novel
9	100.2	40.2	1926 24	Human CDNA differe

10	100.2	40.2	2015	24	ABK83939
11	100.2	40.2	2015	24	ABL66673
12	97	39.0	675	18	AAT63421
13	97	39.0	675	20	AA15151
14	97	39.0	2032	21	AA246491
15	90.8	36.5	1254	12	AAQ13983
16	90.8	36.5	2320	23	AA86451
17	89	35.7	1911	24	ABK63704
18	87.6	35.2	2254	24	ABK83948
19	87.6	35.2	2254	24	ABL68108
20	87.6	35.2	2433	24	AA594859
21	82	32.9	2109	22	AA502049
22	80.4	32.3	2665	24	ABK83738
23	80.4	32.3	2665	24	ABL65189
24	77.8	31.2	2298	24	ABK83935
25	74.6	30.0	1611	14	AAQ46688
26	74.6	30.0	1699	23	AA587965
27	74.6	30.0	4466	24	ABN59752
28	73	29.3	414	22	AA67577
29	66.6	26.7	1602	14	AAQ46687
30	66.6	26.7	1759	21	AA229700
31	66.6	26.7	1759	21	AA229700
32	66.6	26.7	1821	21	ABK10778
33	65.2	26.2	282	20	AA208794
34	65.2	26.2	282	22	AA514748
35	65.2	26.2	1491	20	AA208792
36	65.2	26.2	1491	22	AA514746
37	65.2	26.2	1491	22	AA514754
38	65.2	26.2	1491	22	AA514755
39	55	22.1	2293	23	ABL01921
40	55	22.1	2422	23	ABL19793
41	55	22.1	6839	23	ABL01920
42	55	22.1	33472	23	ABL19792
43	52.2	21.0	3422	23	AA584959
44	52.2	21.0	4517	20	AA490200
45	52.2	21.0	4517	22	AA428359

ALIGNMENTS

RESULT 1	
AA144090	
AA144090 standard; CDNA; 737 BP.	
ID	
XX	
AC	AA144090;
XX	
DT	03-OCT-2002 (first entry)
XX	
DE	Mouse MARS short isoform protein coding sequence.
XX	
KM	Mouse; gene; ss; gene therapy; modulator of antigen receptor signalling;
KM	MARS; tumor suppressor gene; Src-like adaptor protein; SHAP;
KM	myeloid malignancy; acute myelogenous leukaemia; autoimmune disorder;
KM	immunopression; myeloproliferative disorder; breast cancer.
XX	
OS	Mus sp.
XX	
FT	Key
FT	CDS
FT	Location/Qualifiers
FT	1..633
FT	/*tag= a
FT	/product= "Mouse MARS short isoform protein"
PN	W0200242452-A2.
XX	
PD	30-MAY-2002.
XX	
PF	26-NOV-2001; 2001WO-CA01662.
XX	
PR	27-NOV-2000; 2000CA-2324663.
XX	
PA	(HOSP-) HOSPITAL FOR SICK CHILDREN.
XX	

PI Meglade JC, Loreto MP;
 XX
 XX WPI; 2002-566564/60.
 DR P-PSDB; AAO15458.
 XX
 XX
 PT New isolated modulator of antigen receptor signalling protein or its
 fragment, useful for treating malignant disorders such as myeloid
 PT malignancies, autoimmune disorders and myeloproliferative disorders -
 XX
 PS Claim 9; Page 77; 110pp; English.
 XX
 XX The invention comprises the amino acid and coding sequences of modulator
 CC of antigen receptor signalling (MARS) proteins. The MARS protein is a
 CC putative tumour suppressor gene and exhibits structural and sequence
 CC similarity to the Scr-like adaptor protein (SLAP). The MARS DNA and
 CC protein sequences of the invention are useful for the treatment of
 CC myeloid malignancies (e.g. acute myelogenous leukaemia) autoimmune
 CC disorders, immunosuppression, myeloproliferative disorders and
 CC malignancies related to the de-regulation of tyrosine kinases (e.g.
 CC breast cancer). The present cDNA sequence encodes a mouse MARS protein.
 XX
 SQ Sequence 737 BP; 152 A; 219 C; 218 G; 148 T; 0 other;
 Query Match 100.0%; Score 249; DB 24; Length 737;
 Best Local Similarity 100.0%; Pred. No. 5.3e-61;
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TGCGTGTATGAGGGCTTACGAGGAGAAAGCAAGAACTGCTGTTTACTCGGAAAC 60
 DB 280 TGCGTGTATGAGGGCTTACGAGGAGAAAGCAAGAACTGCTGTTTACTCGGAAAC 339
 QY 61 CCTGAGAGGGGCTTCTCTATCCGGAGAGCCAGACAGAGAGGCTTACTCTGTCA 120
 DB 340 CCTGAGAGGGGCTTCTCTATCCGGAGAGCCAGACAGAGAGGCTTACTCTGTCA 399
 QY 121 GTCCGCTTCAAGCCGCTTGCATCTTGGGACCGGATCAGACATCAAGATTCACCTG 180
 DB 400 GTCCGCTTCAAGCCGCTTGCATCTTGGGACCGGATCAGACATCAAGATTCACCTG 459
 QY 181 GACAATGCTGCTGTACATCTCAACCGGCTTCCCTCACTCCAGGCTTGTG 240
 DB 460 GACAATGCTGCTGTACATCTCAACCGGCTTCCCTCACTCCAGGCTTGTG 519
 QY 241 GACCATTTAC 249
 DB 520 GACCATTTAC 528
 RESULT 2
 AAL44089
 ID AAL44089 standard; cDNA; 786 BP.
 XX
 AC AAL44089;
 XX
 DT 03-OCT-2002 (first entry)
 XX
 DE Human modulator of antigen receptor signalling protein coding sequence.
 XX
 KW Human; gene; ss; gene therapy; modulator of antigen receptor signalling;
 KW MARS; tumour suppressor gene; Scr-like adaptor protein; SLAP;
 KW myeloid malignancy; acute myelogenous leukaemia; autoimmune disorder;
 KW immunosuppression; myeloproliferative disorder; breast cancer.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT 1..786
 FT CDS /tag= a
 FT /product= "Human MARS protein"
 XX
 PN WO200242452-A2.
 XX
 PD 30-MAY-2002.

XX
 PF 26-NOV-2001; 2001WO-CA01662.
 XX
 PR 27-NOV-2000; 2000CA-2324663.
 XX
 XX (HOSP-) HOSPITAL FOR SICK CHILDREN.
 XX
 PA
 XX
 PI Meglade JC, Loreto MP;
 XX
 DR WPI; 2002-566564/60.
 DR P-PSDB; AAO15457.
 XX
 XX
 PT New isolated modulator of antigen receptor signalling protein or its
 fragment, useful for treating malignant disorders such as myeloid
 PT malignancies, autoimmune disorders and myeloproliferative disorders -
 XX
 PS Claim 12; Page 75; 110pp; English.
 XX
 XX The invention comprises the amino acid and coding sequences of modulator
 CC of antigen receptor signalling (MARS) proteins. The MARS protein is a
 CC putative tumour suppressor gene and exhibits structural and sequence
 CC similarity to the Scr-like adaptor protein (SLAP). The MARS DNA and
 CC protein sequences of the invention are useful for the treatment of
 CC myeloid malignancies (e.g. acute myelogenous leukaemia) autoimmune
 CC disorders, immunosuppression, myeloproliferative disorders and
 CC malignancies related to the de-regulation of tyrosine kinases (e.g.
 CC breast cancer). The present cDNA sequence encodes a human MARS protein.
 XX
 SQ Sequence 786 BP; 162 A; 234 C; 231 G; 159 T; 0 other;
 Query Match 100.0%; Score 249; DB 24; Length 786;
 Best Local Similarity 100.0%; Pred. No. 5.4e-61;
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TGCGTGTATGAGGGCTTACGAGGAGAAAGCAAGAACTGCTGTTTACTCGGAAAC 60
 DB 280 TGCGTGTATGAGGGCTTACGAGGAGAAAGCAAGAACTGCTGTTTACTCGGAAAC 339
 QY 61 CCTGAGAGGGGCTTCTCTATCCGGAGAGCCAGACAGAGAGGCTTACTCTGTCA 120
 DB 340 CCTGAGAGGGGCTTCTCTATCCGGAGAGCCAGACAGAGAGGCTTACTCTGTCA 399
 QY 121 GTCCGCTTCAAGCCGCTTGCATCTTGGGACCGGATCAGACATCAAGATTCACCTG 180
 DB 400 GTCCGCTTCAAGCCGCTTGCATCTTGGGACCGGATCAGACATCAAGATTCACCTG 459
 QY 181 GACAATGCTGCTGTACATCTCAACCGGCTTCCCTCACTCCAGGCTTGTG 240
 DB 460 GACAATGCTGCTGTACATCTCAACCGGCTTCCCTCACTCCAGGCTTGTG 519
 QY 241 GACCATTTAC 249
 DB 520 GACCATTTAC 528
 RESULT 3
 ABK61465
 ID ABK61465 standard; cDNA; 1183 BP.
 XX
 AC ABK61465;
 XX
 DT 18-JUN-2002 (first entry)
 XX
 DE Human cDNA encoding protein NOV13.
 XX
 KW Human; gene; ss; NOVX; gene therapy; cardiomyopathy; atherosclerosis;
 KW cell signal processing disorder; metabolic pathway modulation disorder;
 KW diabetes; cancer; adenocarcinoma; lymphoma; prostate cancer;
 KW uterus cancer; immune response; graft-versus-host disease;
 KW acquired immunodeficiency syndrome; AIDS; asthma; Crohn's disease;
 KW hypertension; congenital heart defects; multiple sclerosis; inflammation;
 KW Albright hereditary osteodystrophy.

OS Homo sapiens.
 XX MO200216599-A2.
 XX 28-FEB-2002.
 PD
 XX 27-ANG-2001; 2001WO-US26510.
 PF
 XX 25-ANG-2000; 2000US-228191P.
 PR 08-FEB-2001; 2001US-267300P.
 PR 20-FEB-2001; 2001US-26961P.
 PR 20-MAR-2001; 2001US-277337P.
 XX
 PA (CURA-) CURAGEN CORP.
 PA (CORP-) COR THERAPEUTICS INC.
 XX
 PI Burgess CE, Conley PB, Grose WM, Hart M, Kekuda R, Shinkens RA;
 PI Spytek KA, Szekeres BS, Tomlinson JE, Topper JM, Yang R;
 XX
 XX WPI: 2002-280937/32.
 DR P-PSDB; AAU91308.
 DR
 XX
 PT New polypeptides for treating or preventing a disorder associated with
 PT them, in humans, e.g. cardiomyopathy, atherosclerosis or cancers -
 XX
 XX
 PS Claim 1: Page 98; 263pp; English.
 CC The invention relates to an isolated polypeptide (NOVX) a mature
 CC form of NOVX, a NOVX variant (differing by no more than 15%), the
 CC nucleotide encoding NOVX (or its complement, fragment or variant).
 CC NOVX is NOV1-14, 15a, 15b, 16a, and 16b. The NOVX polypeptide, nucleic
 CC acid encoding it and antibody against it, are useful for treating or
 CC preventing (e.g. by gene therapy) a NOVX-associated disorder in humans,
 CC e.g. cardiomyopathy, atherosclerosis, a disorder related to cell signal
 CC processing and metabolic pathway modulation, diabetes or cancers. The
 CC NOVX polypeptide and nucleic acids are also useful for determining the
 CC presence of predisposition to the diseases. The NOVX nucleic acid and
 CC polypeptide are especially useful in therapeutic or prophylactic
 CC applications for disorders associated with aberrant NOVX expression or
 CC activity, e.g. cancers (e.g. adenocarcinoma, lymphoma, prostate cancer or
 CC urogenital cancer), immune response, graft-versus-host disease, acquired
 CC immunodeficiency syndrome (AIDS), asthma, Crohn's disease, hypertension,
 CC congenital heart defects, multiple sclerosis, inflammation or Albrecht
 CC hereditary osteodystrophy and many other diseases listed in the
 CC specification. The DNA encoding the protein is useful in gene therapy
 CC for treating the conditions. This is also useful in detection assays,
 CC chromosome mapping, tissue typing, diagnostic or prognostic assays, or
 CC for developing a powerful assay system for functional analysis of
 CC various human disorders, as well as in diagnostic applications. The
 CC present sequence encodes a NOVX protein.
 XX
 XX Sequence 1183 BP; 251 A; 359 C; 333 G; 240 T; 0 other;
 SQ
 Query Match 100.0%; Score 249; DB 24; Length 1183;
 Best Local Similarity 100.0%; Pred. No. 6a-6i; Indels 0; Gaps 0;
 Matches 249; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 241 GACCACTTAC 249
 Db 917 GACCACTTAC 925

RESULT 4

AACT7202
 ID AACT7202 standard; cDNA; 837 BP.

AACT7202;

08-FEB-2001 (first entry)

Human ORFX ORF2757 polynucleotide sequence SEQ ID NO:5513.

Human; open reading frame; ORFX; detection; cytostatic; hepatotropic;
 KW vulnery; antiproliferative; antiparkinsonian; neurotropic; neuroprotective;
 KW anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiant;
 KW immunostimulant; thrombolytic; coagulant; vasotrophic; antidiabetic;
 KW hypotensive; dermatological; immunosuppressive; antihypertensive;
 KW antiviral; antibacterial; antifungal; antineoplastic; antihypertensive;
 KW antianemic; gene therapy; cancer; proliferative disorder; hypertension;
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;
 KW cholesterol ester storage; systemic lupus erythematosus; infection;
 KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;
 KW bone damage; cartilage damage; antiinflammatory disease; coagulation;
 KW thrombosis; contraceptive; ss.

OS Homo sapiens.

PN WO200058473-A2.

PD 05-OCT-2000.

PF 31-MAR-2000; 2000WO-US08621.

PR 31-MAR-1999; 99US-0127607.

PR 02-APR-1999; 99US-0127636.

PR 05-APR-1999; 99US-0127728.

PR 30-MAR-2000; 2000US-0540763.

XX (CURA-) CURAGEN CORP.

XX Shinkens RA, Leach M;

XX WPI: 2000-602362/57.

XX P-PSDB; ABA42993.

PS Claim 5; Page 4692-4693; 5507pp; English.

AACT4446 to AACT7202 encode the proteins given in ABA40237 to ABA43397,
 CC which represent the human ORFX open reading frames 1 to 3161. The ORFX
 CC sequences have activities such as: cytostatic; hepatotropic; vulnery;
 CC antiproliferative; antiparkinsonian; neurotropic; neuroprotective;
 CC osteopathic; anticonvulsant; antiarthritic; immunosuppressant;
 CC immunostimulant; cardiant; thrombolytic; coagulant; vasotrophic;
 CC antidiabetic; hypotensive; dermatological; immunosuppressive;
 CC antiinflammatory; antibacterial; antiviral; antifungal; antineoplastic;
 CC antihypertensive; antianemic. The sequences can be used for determining
 CC the presence of or predisposition to, or preventing or treating
 CC pathological conditions associated with an ORFX-associated disorder. The
 CC nucleic acids can be used to express ORFX proteins in gene therapy
 CC vectors. The proteins and nucleic acids may be used to treat cancers,
 CC proliferative disorders, neurodegenerative disorders, osteoarthritis,
 CC graft vs host disease, cardiovascular disease, diabetes mellitus,
 CC hypertension, hypothyroidism, cholesterol ester storage, systemic lupus
 CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,

XX WO200175067-A2.
XX 11-OCT-2001.
XX 30-MAR-2001, 2001WO-US08631.
XX 31-MAR-2000; 2000US-0540217.
XX 23-AUG-2000; 2000US-0649167.
XX (HYSE-) HXSEQ INC.
XX Drmanac RT, Liu C, Tang YT,
XX WPI, 2001-639362/73.
XX P-FSD8; ABG05994.
XX
XX New isolated polynucleotide and encoded polypeptides, useful in
XX diagnostics, forensics, gene mapping, identification of mutations
XX responsible for genetic disorders or other traits and to assess
XX biodiversity -
XX
XX Claim 1; SEQ ID No 5985; 103pp; English.
XX
XX The invention relates to isolated polynucleotide (I) and
XX polypeptide (II) sequences, (I) is useful as hybridisation probe,
XX polymerase chain reaction (PCR) primers, oligomers, and for chromosome
XX and gene mapping, and in recombinant production of (II). The
XX polynucleotides are also used in diagnostics as expressed sequence tags
XX for identifying expressed genes. (I) is useful in gene therapy techniques
XX to restore normal activity of (II) or to treat disease states involving
XX (II). (II) is useful for generating antibodies against it, detecting or
XX quantitating a polypeptide in tissue, as molecular weight markers and as
XX a food supplement. (II) and its binding partners are useful in medical
XX imaging of sites expressing (II). (I) and (II) are useful for treating
XX disorders involving aberrant protein expression or biological activity.
XX The polypeptide and polynucleotide sequences have applications in
XX diagnostics, forensics, gene mapping, identification of mutations
XX responsible for genetic disorders or other traits to assess biodiversity
XX and to produce other types of data and products dependent on DNA and
XX amino acid sequences. AAS64197-AAS94564 represent novel human
XX diagnostic coding sequences of the invention.
XX Note: The sequence data for this patent did not appear in the printed
XX specification, but was obtained in electronic format directly from WIPO
XX at ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 211 BP; 50 A; 51 C; 72 G; 38 T; 0 other;
XX
XX Query Match 41.4%; Score 103; DB 23; Length 211;
XX Best Local Similarity 100.0%; Pred. No. 9, 2e-20;
XX Matches 103; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 TGGCTGTATGAGGCGCTGAGAGGAGAGAAAGCAAGCACTGCTGTTTACCTGGGAC 60
XX Db 109 TGGCTGTATGAGGCGCTGAGAGGAGAGAAAGCAAGCACTGCTGTTTACCTGGGAC 168
XX
XX 61 CTTGAGAGGCGCTTCCTCATCCGGAGAGCGCAGACCAAGAGAG 103
XX Db 169 CTTGAGAGGCGCTTCCTCATCCGGAGAGCGCAGACCAAGAGAG 211
XX
XX RESULT 9
XX ABRK83940
XX ID ABRK83940 standard; cDNA; 1926 BP.
XX AC ABRK83940;
XX XX
XX 14-AUG-2002 (first entry)
XX DT
XX XX
XX Human cDNA differentially expressed in granulocytic cells #511.
XX DE
XX XX
XX Human; ss; granulocytic cell; DNA chip; bacterial infection;
XX KM viral infection; parasitic infection; protozoal infection;

KM fungal infection; sterile inflammatory disease; psoriasis;
KM rheumatoid arthritis; glomerulonephritis; asthma; thrombosis;
KM cardiac reperfusion injury; renal reperfusion injury; ARDS;
KM adult respiratory distress syndrome; inflammatory bowel disease;
KM Crohn's disease; ulcerative colitis; periodontal disease;
KM granulocyte activation; chronic inflammation; allergy.
XX
XX Homo sapiens.
XX WO200228999-A2.
XX
XX 11-APR-2002.
XX
XX 03-OCT-2001; 2001WO-US30821.
XX
XX 03-OCT-2000; 2000US-237169P.
XX
XX (GENE-) GENE LOGIC INC.
XX
XX Beazer-Barclay Y, Weissman SM, Yamaga S, Vockley J;
XX WPI; 2002-435328/46.
XX
XX
XX Detecting granulocyte activation by detecting differential expression
XX of genes associated with granulocyte activation, which serves as
XX diagnostic markers that is useful for monitoring disease states and
XX drug toxicity -
XX
XX Claim 1; SEQ ID No 511; 114pp; English.
XX
XX The invention relates to detecting (M1) granulocyte (GC) activation
XX (GCA), by detecting the level of expression of gene(s) (Gs) identified by
XX DNA chip analysis as given in the specification, and comparing
XX the expression level to an expression level in an unactivated
XX GC, where differential expression of Gs is indicative of GCA.
XX Also included are modulating (M2) Gs by contacting GC with an agent
XX that alters the expression of at least one gene in Gs; (2) screening (M3)
XX for an agent capable of modulating GCA or an inflammation (especially
XX chronic) in a tissue, an allergic response in a subject, exposure of a
XX subject to a pathogen or sterile inflammatory disease using the
XX gene expression profile; (3) detecting (M4) an inflammation (especially
XX chronic) in a tissue, an allergic response in a subject, exposure of a
XX subject to a pathogen or sterile inflammatory disease, by detecting the
XX level of expression in a sample of the tissue of gene(s) from Gs, where
XX the level of expression of the gene is indicative of inflammation;
XX (4) treating (M5) an inflammation (especially chronic) or in a tissue,
XX an allergic response in a subject, exposure of a subject to a pathogen
XX or sterile inflammatory disease, by contacting a tissue having
XX inflammation with an agent that modulates the expression of gene(s)
XX from Gs in the tissue. M1 is useful for detecting GCA; M2 is useful for
XX modulating Gs; M3 is useful for screening an agent capable of modulating
XX GCA; preferably in an inflammation in a tissue; M4 is useful for
XX detecting an inflammation (especially chronic) in a tissue, an allergic
XX response in a subject, exposure of a subject to a pathogen or sterile
XX inflammatory disease (e.g. psoriasis, rheumatoid arthritis,
XX glomerulonephritis, asthma, thrombosis, cardiac reperfusion injury, renal
XX reperfusion injury, ARDS, adult respiratory distress syndrome,
XX inflammatory bowel disease, Crohn's disease, ulcerative colitis,
XX periodontal disease, also bacterial infection, viral infection, and
XX parasitic infection, protozoal infection, fungal infection, and M5 is
XX useful for treating one of the above conditions. The present
XX sequence represents a gene differentially expressed in granulocytes.
XX Note: The sequence data for this patent did not form part
XX of the printed specification, but was obtained in electronic
XX format directly from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 1926 BP; 497 A; 522 C; 520 G; 387 T; 0 other;
XX
XX Query Match 40.2%; Score 100.2; DB 24; Length 1926;
XX Best Local Similarity 62.7%; Pred. No. 9, 7e-19;
XX Matches 156; Conservative 0; Mismatches 93; Indels 0; Gaps 0;

CC subject to a pathogen or sterile inflammatory disease using the

PN WQ200194629-A2.

XX


```

XX PF 27-MAY-1999; 99MO-GB01680.
XX PR 27-MAY-1998; 98NO-0002419.
XX BR 30-DEC-1998; 98US-0114240.
XX (LAUR-) LAURAS AS.
XX PA (JONE/) JONES E L.
XX PI Hanson V, Levy FO, Musteijn T, Skalhogg BS, Sundvold V, Tasken K;
XX Vang T, Altman A, Munshi A;
XX DR WPI: 2000-086801/07.
XX P-PSDB; MAY9420.
XX
XX Altering the activity of protein kinase signaling pathways, used for
XX treating immunosuppressive disorders, e.g. AIDS, proliferative
XX disorders, e.g. cancers or autoimmune diseases
XX
XX Claim 22; Page 94-95; 11pp; English.
XX
XX The invention provides a novel method of altering the activity of the
XX protein kinase A (PKA) signaling pathway in a cell that comprises
XX altering the extent of phosphorylation of one or more PKA substrates, or
XX kinase substrates downstream in the PKA signaling pathway. Pharmaceutical
XX compositions containing a nucleic acid molecule that encodes a PKA
XX substrate, or fragment, precursor or functionally equivalent variant,
XX where the sequence is modified to alter its susceptibility to
XX phosphorylation by PKA can be used for treating a disorder exhibiting
XX abnormal PKA signaling activity, immunosuppressive disorders or
XX proliferative diseases. They can be used for treating e.g. HIV
XX infection, AIDS, common variable immunodeficiency or cancers. Conditions
XX in which upregulation of the PKA pathway is required, such as autoimmune
XX disease, e.g. systemic lupus erythematosus, may also be treated. The
XX present sequence represents a DNA sequence encoding a PKA substrate,
XX wherein the substrate is in the Src-family, preferably Lck, Fyn, Src,
XX Yes, Fgr, Lyn, Hck Blk, Yrk, c-ekl, Fyk, Src-1 or Src-2.
XX
XX Sequence 2032 BP; 450 A; 576 C; 584 G; 422 T; 0 other;
SQ
Query Match 39.0%; Score 97; DB 21; Length 2032;
Best Local Similarity 61.8%; Pred. No. 7.9e-18;
Matches 154; Conservative 0; Mismatches 95; Indels 0; Gaps 0
OY 1 TGCGTGTATGAGGGCCGTGACGAGGAGAAAGCGATCGTGTATCTCGGAGAC 60
DB 430 TGGTCTTCAGAAAGACTGAGCGCGCAAGACGCGAGCGGACCTCTGCGCCCGGGAGAC 489
OY 61 CCTGAGAGGGGCTTTCCTCATCCGGAGAGCGACGACGAGAGAGCTTTACTCTGTCTCA 120
DB 490 ACTCAAGGCTCTTTCCTCATCCGGAGAGGAGGAGACACCGCGGCTCTTTCACATGTG 549
OY 121 GTCCGCTTCACCGCCCTCATCTCCGGAGACGGATTCAGACATCAGATCATCGCTT 180
DB 550 GTCCGAGACTTCAGACCAAAACGAGGAGAGGTGTGAAACATTTACAAATATCCGATCTG 609
OY 181 GACATGCGTGGCTGTATCATCTCACCGCGCTCATCTTCCCTCATCTCCAGACCTGTGTG 240
DB 610 GACAAAGGTGGCTTACATCTCCCTCGAATCATCTTTCGCGCTGATGAAATCGATC 669
OY 241 GACCATTTAC 249
DB 670 CGCATTTAC 678
RESULT 15
ID AA013983
AC AA013983 standard; DNA; 1254 BP.
XX AA013983;
XX
XX 13-DEC-1991 (first entry)
XX

```

```

DE Lck gene fused with part of beta-galactosidase gene.
XX
XX Multi-cloning site; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
FH 1..78
FT misc_RNA /*tag= a
FT /*note= "beta-galactosidase gene fragment"
FT misc_RNA /*note= "beta-galactosidase gene fragment"
FT 79..1254
FT /*tag= b
FT /*note= "lck gene"
XX
XX JP03201994-A.
XX
XX 03-SEP-1991.
XX
XX 28-DEC-1989; 89UP-0338268.
XX
XX 28-DEC-1989; 89UP-0338268.
XX
XX (TOKU ) TOKUYAMA SODA KK.
XX
XX WPI, 1991-300980/41.
XX
XX P-PSDB; ARI4201.
XX
XX
XX
XX Fused polypeptide - has amino acid sequence of beta-galactosidase
PT with a lck gene conjugated to the N-terminal via DNA having
PT multi-cloning site
XX
XX
XX Disclosure; Fig 4,2; 15pp. Japanese.
XX
XX
XX The sequence consists of the first 78 bp encoding the N-terminal
CC amino acids of the beta-galactosidase gene fused with the lck gene.
CC It is prepd. by a claimed process in which a DNA contg. the lck
CC gene is inserted into an E.coli expression vector. The vector has
CC DNA contg. part or all of the beta-galactosidase gene at the
CC appropriate site of the multi-cloning site. It is useful for
CC producing an antibody specifically immunoreactive with only a lck
CC gene-derived polypeptide in T cells. The antibody may recognise
CC lck gene-derived polypeptides in human cells.
XX
XX
XX Sequence 1254 BP; 291 A; 361 C; 365 G; 237 T; 0 other;
SQ
Query Match 36.5%; Score 90.8; DB 12; Length 1254;
Best Local Similarity 61.3%; Pred. No. 4e-16;
Matches 146; Conservative 0; Mismatches 92; Indels 0; Gaps
0;
QY 1 TGGCTGTAATGAGGCGCTGAGACGAGAAACAGAGAACTGCTGTACTGTGGAC 60
DB 100 TGGTTTTCAGAAACCTTAGCGCAAGAGACGCGGAGCGGCACTCTGCGCCGGGAAAC 159
QY 61 CCTGAGAGGGGCTTCTTCATCCGGAGAGCCAGACAGAGAGAGCTTACTCTGTCA 120
DB 160 ACTCAGCGCTCTCTCTCATCCGGAGAGCAGAGAGCACCGGCGGATCGTTTACATGTCG 219
QY 121 GTCCGCGCTCAGCGCGCCCTGATCCTTGGAGCCGATCGACATACAGATGCACTGCGCTT 180
DB 220 GTCCGCGGACTTGCACCAAGAACAGAGAGAGGTGTGAACATTACAGATTCGTATCTG 279
QY 181 GACAAATGAGCTGAGCTGATCATCTCAGCCGCGCTCACTTCCCTCATCTCAGGCGCTTG 238
DB 280 GACAAAGGTGAGCTTCAATCATCTCCCTCGAATCACTTTCCCGGCGCTGATGACTGG 337

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